

# “Turtle Tuesday” Logo Challenges

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October 1, 2024

Challenge No. 105

for Logo users



Can you use `TURTLETEXT (TT)`, `SETFONT`, and color to make an interesting design with the word `OCTOBER`?

One solution:

```
SETPC "ORANGE  
(SETFONT "COURIER 64 1)  
REPEAT 15 [PU RT 360/15 PD TT "OCTOBER]
```

**October 8, 2024**

## **Challenge No. 106**

for Logo users



Can you send the turtle into space to orbit the moon and return back to earth?

Go to this image:

<https://resources.terrapiinlogo.com/turtle-tuesdays/img/moonscene.png>

Save the picture to the computer. Then load it into Logo as a Background image.

**Our solution:**

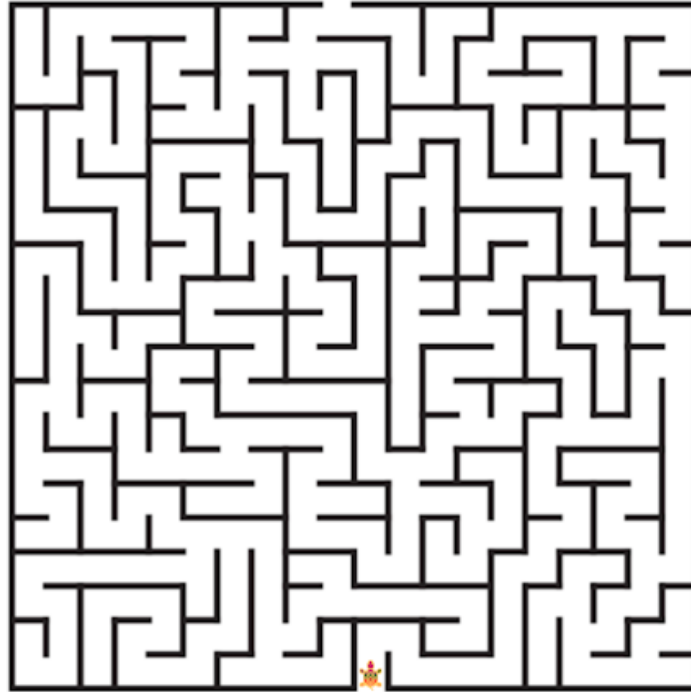
```
SETPC "WHITE  
PU HOME PD  
RT 8  
FD 150  
REPEAT 36 [FD 10 RT 10]  
BK 150  
END
```

*Depending on your computer, you may need to adjust the FD distance.*

October 15, 2024

## Challenge No. 107

for Logo users



Can you get the turtle through this maze?  
It's not as hard as it looks. All moves are multiples of 30 turtle steps.

Go to here to get the maze image:

<https://resources.terrapinlogo.com/turtle-tuesdays/img/maze.png>

Save this file to your computer and then load it into Logo as a Drawing image.

Start with PU SETPOS [15 -287] PD SETH 0

Keep adding your commands in the Editor window so you can test it as you go along!

### Our solution:

```
TO MAZE
SETPC "RED PD
PU SETPOS [15 -287] PD SETH 0
FD 35 RT 90 FD 30 RT 90
FD 30 LT 90 FD 90 LT 90
FD 90 RT 90 FD 30 LT 90
FD 30 RT 90 FD 30 LT 90
FD 30 LT 90 FD 30 RT 90
FD 60 RT 90 FD 90 LT 90
FD 60 RT 90 FD 30 LT 90
FD 30 LT 90 FD 30 RT 90
FD 30 LT 90 FD 30 RT 90
```

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*(continued from previous column)*

```
FD 30 LT 90 FD 30 RT 90
FD 60 LT 90 FD 90 RT 90
FD 60 LT 90 FD 60 LT 90
FD 30 RT 90 FD 30 LT 90
FD 60 RT 90 FD 60 RT 90
FD 60 LT 90 FD 30 RT 90
FD 60 LT 90 FD 30 RT 90
FD 30 RT 90 FD 60 LT 90
FD 30 RT 90 FD 30 LT 90
FD 10
END
```

**October 22, 2024**

## Challenge No. 108

for Logo users



Let's go batty!

Go here to get the bat picture:

<https://resources.terrapinlogo.com/turtle-tuesdays/img/bat.png>

Open the image in a different window from Logo (not a different tab) and make the window small.

Then you can drag the bat image directly onto the turtle in Logo.

Or save it as a file and then drag the image onto the turtle. Now the turtle is a bat that can move and turn.

Write some commands to send it randomly around the screen and stamp its image now and then.

Slow the turtle (bat) down using `SETSPEED`. Change its size with `SETTS`.

Use `BOUNCE` to get the bat to bounce off the sides of the Graphics window instead of wrapping.

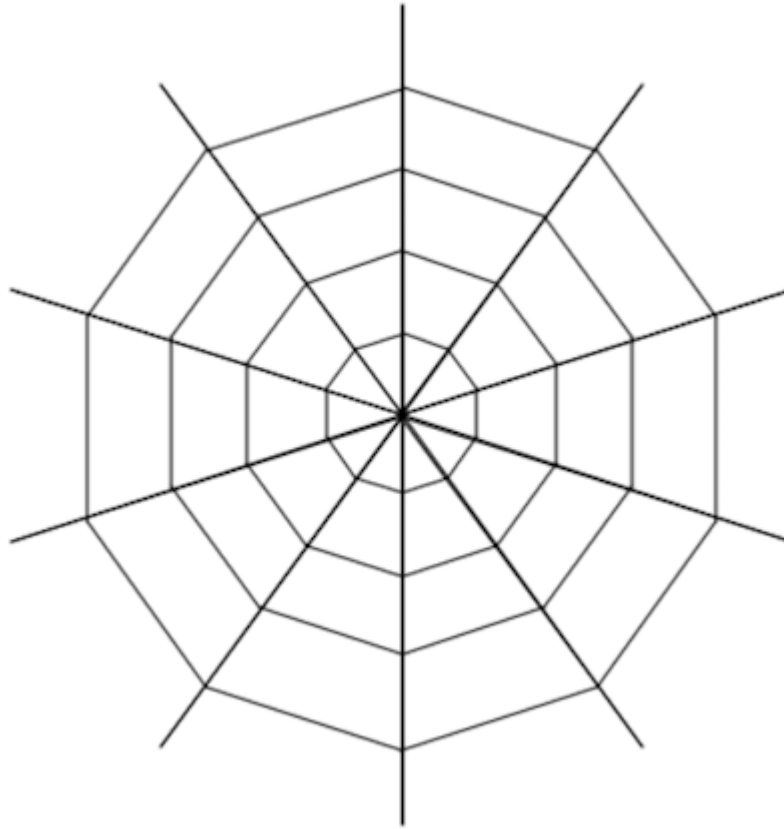
Our solution:

```
CS
SETSPEED .7 SETTS .4
BOUNCE
PU
REPEAT 100 [FD 100 + RANDOM 250 RT RANDOM 180 IF (RANDOM 5) = 3 THEN STAMP]
```

**October 29, 2024**

## **Challenge No. 109**

for Logo and InO-Bot users



**Our solution:**

```
TO WEB
REPEAT 10 [FD 200 BK 200 RT 36]
FD 160 RT 108 REPEAT 10 [FD 100 RT 36]
PU HOME PD
FD 120 RT 108 REPEAT 10 [FD 73 RT 36]
PU HOME PD
FD 80 RT 108 REPEAT 10 [FD 49 RT 36]
PU HOME PD
FD 40 RT 108 REPEAT 10 [FD 24 RT 36]
PU HOME HT
END
```